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INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

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COUNTRY	USS	JR		REPORT				
SUBJECT		il Defense Shelters in I Tbilisi	Moscow	DATE DISTR. NO. PAGES REFERENCES	1	April 19	961	
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		SOURCE EVALUATIONS ARE DE	FINITIVE. AFFRA	ISAL OF CONTE	NI 13	IENIAIIVE.		
	The	following reports on a	ir raid shelt	ers in the l	USSR			
	a.	Atomic shelters at the in Moscow. Description	n and sketche	es of two bas	sement	t shelters		
	D•	Civil defense constructed under A sketch of a shelter of the Moscow Metro as or radiation attacks, a sealed doors.	r buildings w is provided. a shelter.	hich exceede A few deta: The Metro wa	ed six ils or as not	stories the suit suitable	:a bility e for ge	
	с.	A brief description of	basement she	elters in Tb	ilisi.			
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C-O-N-F-I-D-E-N-T-I-A-L	50X1-HUM
INFORMATION REPORT	
COUNTRY: USSR (Moscow 6blast) REPORT NO.:	
SUBJECT: Civil Defense ConstructionDATE OF INFO: in Moscow	50X1-HUM
PLACE ACQUIRED DATE OF REPORT: 29 Sep	tember 1960 50X1-HUM
CIVIL DEFENSE CONSTRUCTION IN MOSCOW 1. There was in existence a governmental decree which reall buildings which exceeded six stories had to have fense shelters. The personnel sections of the construction enterprises would receive plans	civil de- 50X1-HUN

2. The shelters were constructed on a foundation of prefabricated concrete blocks, and were about 3-5 meters deep. The walls were of brick and varied in thickness from 90 to 100 centimeters. Between the external walls and the walls of the compartments, there was a 120 to 150 centimeter wide passageway which followed the interior perimeter of the basement wall. This passageway was intended to counteract the effects of an explosive blast. Another passageway, an emergency exit, about as long as the building was

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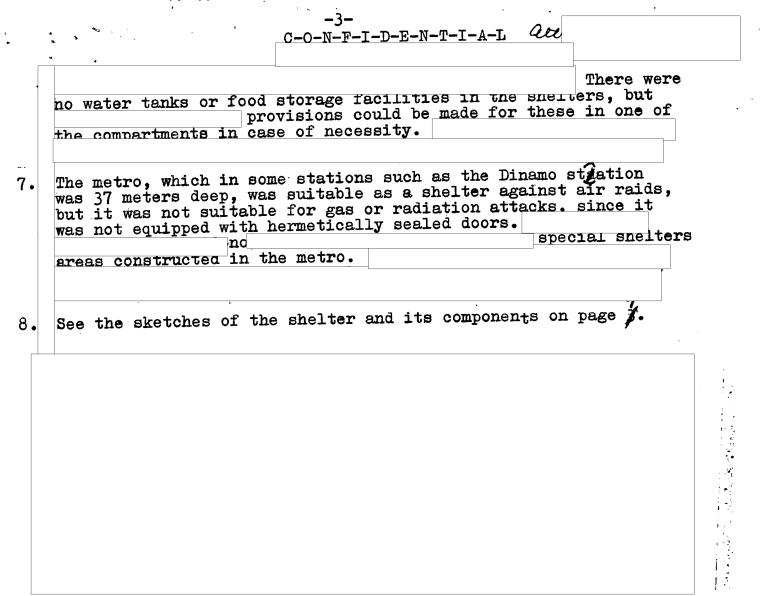
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high, led off from this circumferential passage. It was lined with concrete and had an exit either into the central courtyard of the building or at the rear of the building. The exit consisted of a vertical well equipped with a ladder and covered with a metal top similar to those used for manhole covers.

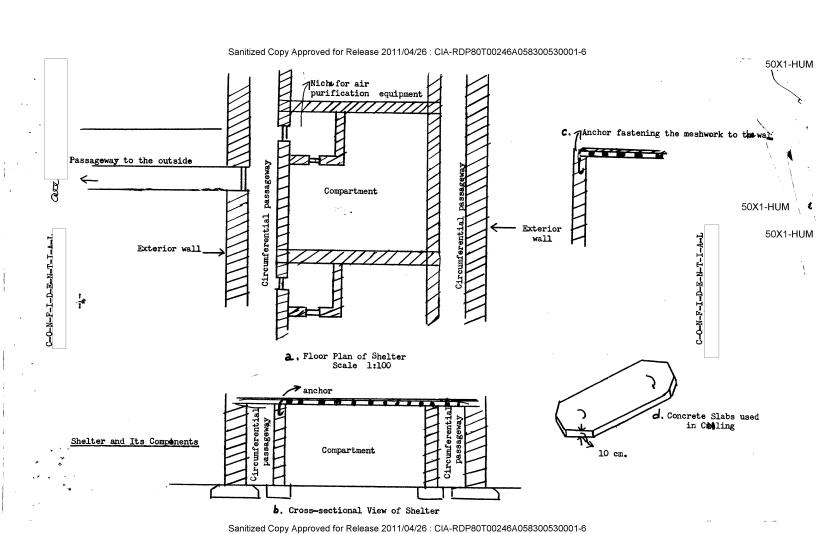
- 3. The individual compartments of the shelters measured about 6 x 6 meters. The interior walls, which made up the various compartments, were constructed of brick some 50 centimeters thick. Each compartment had an entrance which gave access to the circumferential passage. This entrance had a set of two steel doors which had an intervening 2 x 2-meter air space. These doors closed hermetically, were composed of one thickness of steel, and had rubber gaskets. They had no windows or peepholes. There was a steel door between the circumferential passageway and the emergency exit which was exactly like the doors of the individual compartments except that it did not close hermetically or have rubber gaskets.
- 4. The ceilings of the shelters were constructed of octagonal-shaped reinforced concrete slabs. There were several sizes of these roof slabs: PU-1, which was two meters long and .80 meters wide; PU-2, which was 2.20 meters long and .40 meters wide; and PU-3, which was 3.20 meters long and .40 meters wide. Type PU-1 was used for the ceiling of the passageways, while the other two types were used for the ceilings of the individual compartments. The compartment ceilings were supported by double "T" steel beams and were faced with a layer of concrete between the beams. A meshwork of six millimeter steel with squares measuring 10 by 10 centimeters was placed over this layer of concrete and was covered by another layer of concrete, 10 centimeters thick, thus filling in the spaces left by the double "T" beam. This meshwork was anchored to the side walls of the compartments with steel "anchors" having a circumference of twenty millimeters and spaced one meter apart.
- 5. These shelters were completely isolated and independent of one another with no interconnecting tunnels, and each was intended only for its particular housing unit. There were no interconnecting tunnels except for the emergency exit which led to the outside, and this was to be used only when the basement and shelter stairs were out of commission.
- 6. During the construction of the shelters there was no way of determing the ultimate use of any of the individual compartments.

 toilet facilities and air conditioning equipment would be installed in each compartment. The air purification (equipment was not usually installed until an elergency arose. 50X1-HUM However there were 20 x 20 centimeter niches in the walls of the individual compartments which stallation of filter-type air purification equipment.

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JNTRY: USSR (Georgian SSR)	REPORT		
on Tbilisi,	neral Information including	DATE OF		
	d Shelters	DATE AC		
in Tbilisi.		DATE OF REPORT:	18 August 1960	50X′

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basement snelters were constructed in various housing units and a primary school on Sovartalo street; and other housing units, a primary school and an institute on The basement walls were of reinforced con-Rustaveli street. crete about 1.20 meters thick. The basements were about four to five meters high and had ceilings of cement and steel beams placed 60 centimeters apart. Each living space had three or four reinforced concrete columns and in each corner there was a supporting column, also of reinforced concrete, which measured about 30 to 40 centimeters These basements had several large living spaces whose floors consisted of powdered stone (floating stone; sic: volcanic tuff?) mixed with cement and sand, resulting in good sound dampening properties. The basement ceiling was ground level. Each living space [in the basement] had double [two sets of? 7 steel doors with an air chamber between the doors. Each door was about eight or ten millimeters thick and each The main entrance to the door had its own closing system.

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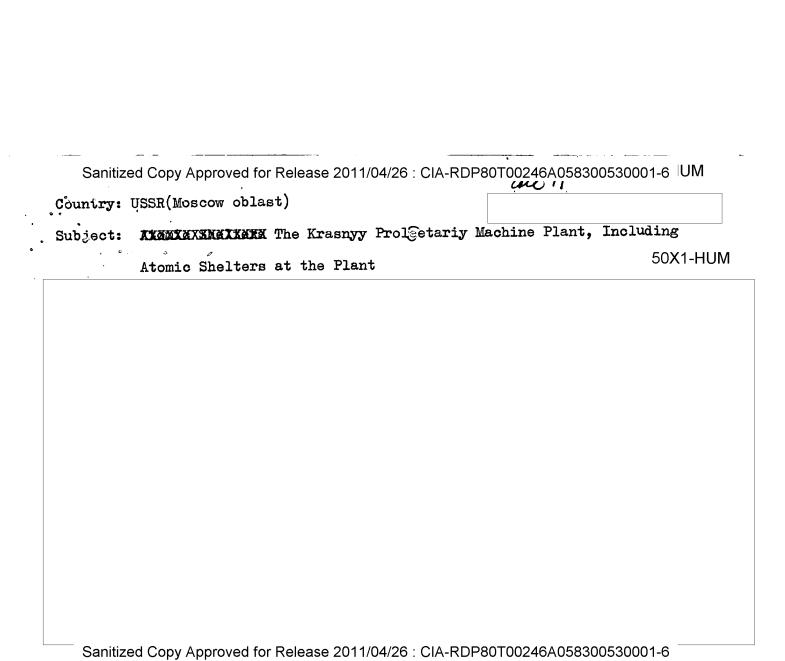
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shelter also consisted of a double steel door. Each living space also had several alcoves measuring 1.50 meters high by 2 meters wide in one of the walls. The alcoves had steel doors and they were for food storage. All living spaces had electrical service, electrical refrigeration and an occulting system Each basement had toilet facilities as well as a reinforced concrete escape tunnel, which lead directly to the street. These tunnels had double steel doors at their exits which could be opened or closed onlyfrom the inside. The tunnels measured about 80 centimeters high and 60 centimeters wide.

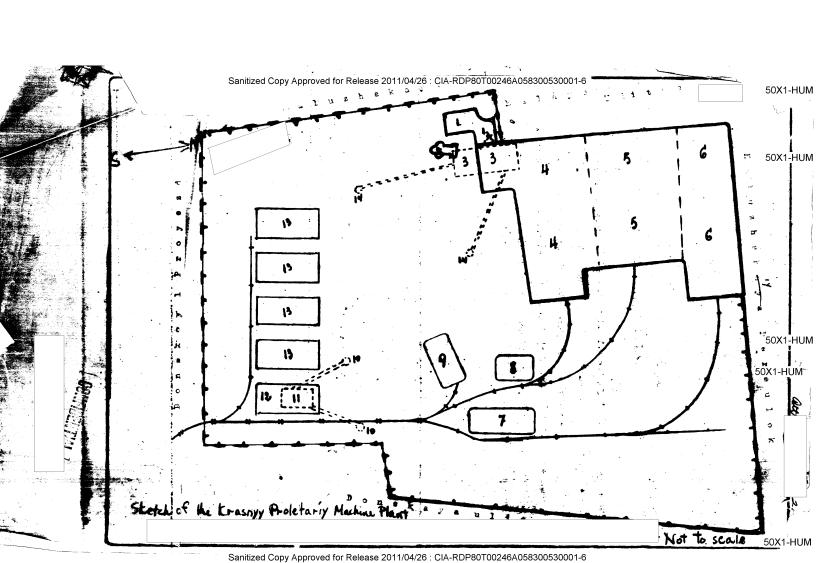
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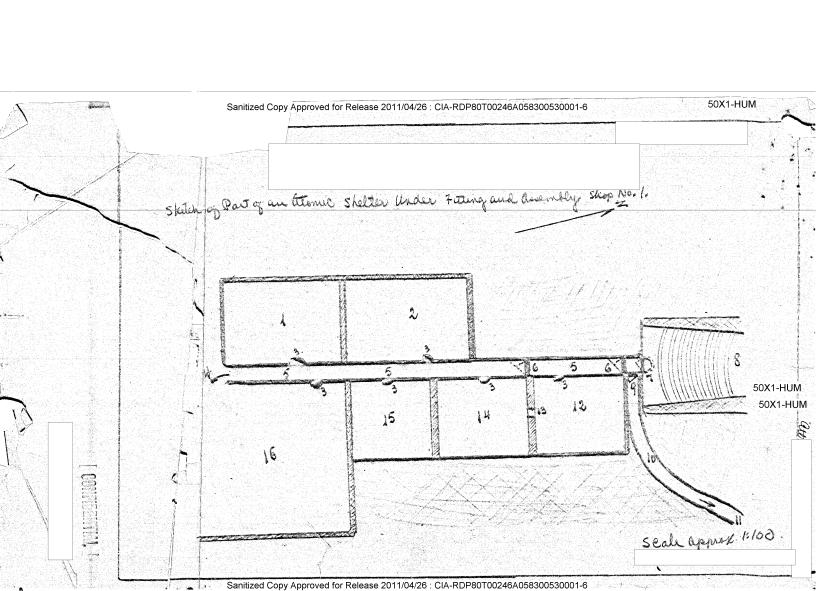
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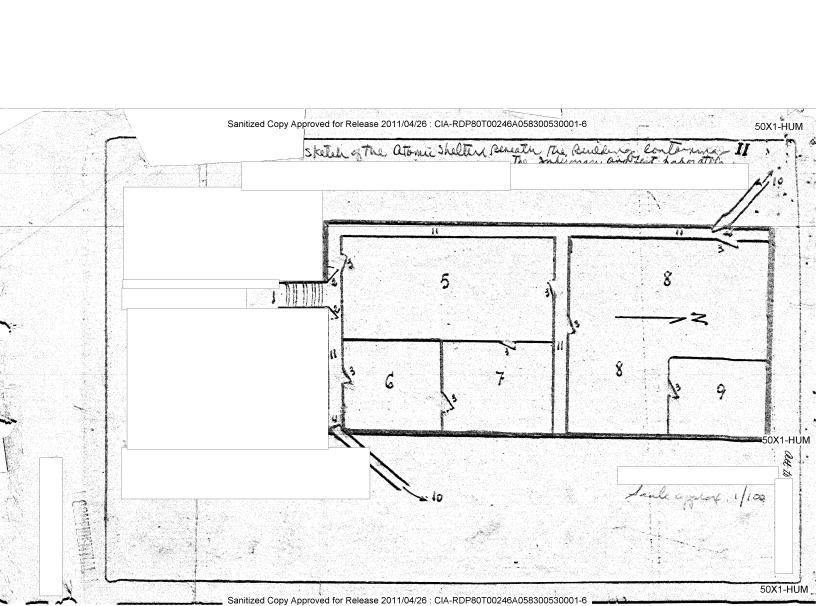
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1. The Krasnyy F	roletariy Machine Plant had no restricted sections and no unde	erground
installations.	Nowever it did have basements and shelters in almost all of the	ne (
buildings.	two of these shelters (See the sketches	of ^{50X1-HUM}
the shelters ben	eath Fitting and Assembly Shop No. 1 and beneath the infirmary	and
test laboratory	on pages and). However others were under construction.	The
ACCO TOOLGOOTS	on pages and). However others were under construction.	THE
·	Fitting and Assembly Shop Nol 1 was not very deep and was made	EOVA LILINA
shelter beneath		EOVA LILINA
shelter beneath	Fitting and Assembly Shop Nol 1 was not very deep and was made	50X1-HUM
shelter beneath entirely of conc	Fitting and Assembly Shop Nol 1 was not very deep and was made rete poured over steal mesh.	50X1-HUM
shelter beneath entirely of conc	Fitting and Assembly Shop Nol 1 was not very deep and was made rete poured over steel mesh. While ten shelter was under construction	50X1-HUM
shelter beneath entirely of conc	Fitting and Assembly Shop Nol 1 was not very deep and was made rete poured over steel mesh. While teh shelter was under construction s within the shop and in the courtyard in which reinforced	50X1-HUM 50X1-HUM
shelter beneath entirely of conc trenche steel pipes WXXX being installed.	Fitting and Assembly Shop Nol 1 was not very deep and was made rete poured over steel mesh. While teh shelter was under construction s within the shop and in the courtyard in which reinforced	EOVA LILINA
shelter beneath entirely of conc trenche steel pipes **** being installed. about 60 square	Fitting and Assembly Shop Nol 1 was not very deep and was made rete poured over steel mesh. While teh shelter was under construction s within the shop and in the courtyard in which reinforced XMAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	50X1-HUM 50X1-HUM 50X1-HUM







operation but which was equipped for producing light arms.

12. A building which housed the infirmary, a small machine test laboratory, and

a shop equipped to produce light armaments.

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- 13. Separate buildings housing design, carpenter, casting, hammering, picon, compressor and other shops.
- 14. Emergency exists to the shelter at Point 3.

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b	SKETCH OF ATOMIC SHELTER LOCATED BENEATH SHOP Nº. 1, PLANT	4
	LEGEND	
	1. Infirmary, clinic, operating room, pharmacy, with an app	roximate area
	of 5 x 3.5 x 2.20 meters.	this department
	had an additional room containing beds.	50X1-HUM
	2. Fil ter department containing the ventilation and heating	g systems,
	water purifiers, and safety controls. It measured about 1x a supply of operations and masks was fined there. 3. Automatic metal doors made of two plates with or some other material was cement between them that made them very heavy. The doors made of two plates with or some other material was cement between them that made them very heavy.	50X1-HUM
	gaskets and E peepholes. They measured 1 x 2 x 0.20 meters. that gave 4. End of hallway XXXXXX access to the different department	30/1-110101
		it continued
	to an emergency exit and entrance to the Labor Mnions. The	-
	hallway measured about 20 met	50X1-HUM ers long by
	about 2.5 meters high and 1 meter wide. Electric cables, p	iping, lights,
	and other installations were for venti	lation, fire 50X1-HUM
	fighting, etc., ran along the ceiling.	33/11/13/11
	5. Hallway with three automatic doors.	
	6. Two automatic, metal safety doors with rubber (gaskets).	These doors
	also had peepholes. Shelter 7. RATNEE entrance door opposite (at the foot of) the cemen	+ atoimuor
	that led from Fitting and Assembly Shop No. 1. The entran	•
	one metal plate reinforced with angle irons and shut tight	
	It was somewhat wider and higher than the others.	under pressure (;).
	8. Conical stairwell with cement walls and stairway; the bas	e of the cone
	was located at the entrance to the shelter, and the narrow	
	at the shop entrance. the stairwell was in case of explosions in the shop, that, pressure on the shelter would be much lighter.	_
	9. Automatic, MANNE metal, double door shutting tight under	pressure; it
•	gave access to theemergency exit passageway which ran to the	e eastern side
	of the plant courtyard. This passageway had about the same	
	width as the other hallways.	50X1-HUM

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10. Approximate	e direction of	the passageway.		
11. Part that		had other safety	doors.	
12. Telephone	command post for	r plant rescue b	rigades in case	of air or 50X1-HUM
	t contained a su	witchboard and a outside irect lines;	t least five te	Pephones, two
			12 12 2	
ed minist	value ement departmen	passing orders t t, point Nº. 14.	o the telephone	50X1-HUM
14. Management	department, construction of the street personnel.	ained a switchboard	and at least five to	chief engineers,
Department use	ed for food, gas mask	s, tools, and an	electric stove	• Other thems 50X1-HUM
were stored in	the shelter, be	cause a supply o	f special suits	(elothing)
		the filter depar		50X1-HUM
16. Room for us	se by persons n	ot assigned spec	ific defense or	work duties.
	these persons	were the bureauc	ratic and auxil	iary personnel
of the plant.				50X1-HUM
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Sanitized Copy Approved for Release 2011/04/26: CIA-RDP80T00246A058300530001-6 50X1-HUM legen to the Statch of the ATOMIC SHELTER LOCATED BENEATH THE BUILDING CONTAINING THE INFIRMARY AND MACHINERY TEST LABORATORY OF THE KRASN TO THE PARTY OF THE PARTY O --LEGEND--1. Stairway to shelter. Metal doors with rubber gaskets. 3. Metal doors with rubber gaskets, giving access to the different shelter departments. 4. Metal exit doors to emergency passageways. Room for rescue workers. fulters Compantinent Filter department containing ventilating equipment, electrical controls, masks, and clothing.

lomperting of the feet plant) directors and Telephones.

7. Management department and telephone service (installations). shop 8. Room for personnel not assigned specific duties. Selected plant personnel 9. Infirmary, kitchen, washrooms, etc. 10. Emergency exits to patio.

11. Safety corridors providing communication between the various rooms.

NOTE: Selected plant personnel received instruction in department No. 8